

## RECENT PRESENTATIONS AND PUBLICATIONS OF HARVEY J. WASSERMAN

80. D. J. Kerbyson, A. Hoisie, and H. J. Wasserman, "A Comparison Between the Earth Simulator and AlphaServer Systems Using Predictive Application Performance Models," to appear in *ACM Computer Architecture News*, December, 2002.
79. D. J. Kerbyson, H. J. Wasserman, and A. Hoisie, "Exploring Advanced Architectures using Performance Prediction", in *Innovative Architecture for Future Generation High-Performance Processors and Systems*, IEEE Computer Society Press, 2002, pp. 27-37
77. D.J. Kerbyson, H. J. Alme, A. Hoisie, F. Petrini, H. J. Wasserman, and M. Gittings, "Predictive Performance and Scalability of a Large-Scale Applications," *Proceedings of SC2001*, November, 2001.
76. A. Hoisie, O. Lubeck, and H. Wasserman, "Performance and Scalability Analysis of TeraFlop-Scale Parallel Architectures Using Multi-Dimensional Wavefront Algorithms," *Intl J. Supercomputer Applications*, to appear.
75. A. Hoisie, O. L. Lubeck, and H. J. Wasserman, "Performance and Scalability of Multi-Dimensional Wavefront Algorithms With Application to Particle Transport," Accepted for Publication, *Proceedings of Frontiers in Massively Parallel Computing*, IEEE Computer Society, February, 1999.
74. H. J. Wasserman, "ASCI Applications and Requirements," Invited Presentation, *IEEE 1998 International Workshop on Innovative Architecture*, October, 1998.
73. A. Hoisie and H. J. Wasserman, "Performance Analysis and Prediction of Large-Scale Scientific Applications," Contributed Tutorial, *SC'98*, IEEE Computer Society, November, 1998, 1999, and 2000.
72. H. J. Wasserman, "Performance Analysis and Benchmarking," Invited Tutorial, *National Partnership for Advanced Computational Infrastructure, Parallel Computing Institute*, San Diego Supercomputer Center, August, 1998.
71. O. M. Lubeck, Y. Luo, H. J. Wasserman, and F. Bassetti, "Development and Validation of a Hierarchical Memory Model Incorporating CPU- and Memory-Operation Overlap," *Proc. of PDPTA*, July, 1998.
70. H. J. Wasserman, O. M. Lubeck, Y. Luo and F. Bassetti, "Performance Evaluation of the SGI Origin2000: A Memory-Centric Characterization of LANL ASCI Applications," *Proc. of SC97*, IEEE Computer Society, 1997.
69. H. J. Wasserman, "Supercomputing in Japan: 1997 Update," *Los Alamos National Laboratory Unclassified Report NIS-8(U)-97-149*, 1997.
68. H. J. Wasserman, "Benchmark Tests on the New DEC ALPHA Microprocessor and a Comparison of Optimized Vector and Superscalar Processing," *Contributed Presentation and Proc. 1996 Intl. Conf. Supercomputing*, Assoc. Comp. Mach., pp 333-340.
67. H. J. Wasserman, "Benchmark Tests on the New IBM RISC System/6000 590 Workstation," *Scientific Programming*, Vol. 4, No. 1, pp23-34, Spring, 1995.
66. H. J. Wasserman, "Benchmark Tests on the Cray Research CRAY J90," *Los Alamos National Laboratory Unclassified Report LA-UR-95-4111*, 1995.
65. H. J. Wasserman, "Benchmark Tests on a Silicon Graphics R8000-Based Workstation," *Los Alamos National Laboratory Unclassified Report LA-UR-95-4348*, 1995.
64. H. J. Wasserman, M. L. Simmons, and A. H. Hayes, "Supercomputer Usage Worldwide," *Los Alamos National Laboratory Unclassified Report LA-UR-95-375*, 1995.
63. H. J. Wasserman, M. L. Simmons, I. Y. Bucher, and R. E. Hiromoto, "An Assessment of High-Performance Computer Technology in Japan and Europe," *Los Alamos National Laboratory Unclassified Report 93-3604*, October, 1993.
62. H. J. Wasserman, "GigaTera-FLOPS and Other Politically-Correct Performance Hype," Tutorial Notes for Summer 1993 and 1994 Computational Science Workshop, University of New Mexico.
61. O. M. Lubeck, J. W. Moore, M. L. Simmons, and H. J. Wasserman, "Benchmarking Massively Parallel Architectures," *Proc. Workshop on Benchmarking and Performance Evaluation of High Performance Computers*, Tokyo, July, 1993.
60. O. M. Lubeck, M. L. Simmons, and H. J. Wasserman, "The Performance Realities of Massively Parallel Processors: A Case Study," *Proc. Supercomputing '92*, IEEE Computer Society, pp. 403-413.

59. M. L. Simmons and H. J. Wasserman, "A Preliminary Look at a New Cray Supercomputer: Performance Evaluation of the C90," *ISR Vector Register*, Vol 4, No 3, Fall 1991.
58. Harvey J. Wasserman, "Application Code Performance of the Stardent VISTRA-800 and CDC 4680 Scientific Workstations, Including an Evaluation of Fortran Performance of the i860 Chip," *Los Alamos National Laboratory Unclassified Report* 91-2824, August, 1991.
57. Margaret L. Simmons, Harvey J. Wasserman, Olaf M. Lubeck, Christopher Eoyang, Raul Mendez, Hiroo Harada and Misako Ishiguro, "Performance Comparison of Three Supercomputers: NEC SX-3, Fujitsu VP2600, and CRAY Y-MP," *Communications of the ACM*, Vol 35, No 8, August, 1992, pp116-124.
56. M. L. Simmons and H. J. Wasserman, "Performance Evaluation of the IBM RISC System/6000: Comparison of an Optimized Scalar Processor with a Vector Processor Having the Same CPU Clock Cycle", in *Proc. Supercomputing '90*, IEEE Computer Society, pp. 213-223.
55. M. L. Simmons and H. J. Wasserman, "Los Alamos Experiences with the IBM RISC System/6000 Workstations," *Los Alamos National Laboratory report LA-11831-MS* (March, 1990).
54. R. J. Koskela, M. L. Simmons, and H. J. Wasserman, "Performance Characterization of the Convex C-240 Computer System," *Los Alamos National Laboratory report LA-11769-MS* (February, 1990).
53. P. T. Burns, M. Christon, R. Schweitzer, O. M. Lubeck, H. J. Wasserman, M. L. Simmons, and D. V. Prior, "Vectorization of Monte Carlo Particle Transport: An Architectural Study Using the LANL Benchmark 'GAMTEB'," in *Proc. Supercomputing '89*, IEEE Computer Society, 1989, pp. 10-20.
52. H. J. Wasserman and R. G. Brickner, "Monte Carlo Photon Transport with the 'GAMTEB' Benchmark on the Thinking Machines Corp. CM-2," poster presentation at *Supercomputing '89*, IEEE Computer Society, 1989.
51. R. J. Koskela, M. L. Simmons, and H. J. Wasserman, "Measurement of Inter-CPU Memory Contention Effects on the CRAY X-MP/416 and CRAY Y-MP/832," poster presentation at *Supercomputing '88*, IEEE Computer Society, 1988.
50. J. H. Griffin, H. J. Wasserman, and L. P. McGavran, "A Debugger for Parallel Processes," *Software - Practice and Experience* **18**(12), 1179-1190 (1988).
49. H. J. Wasserman, M. L. Simmons, and O. M. Lubeck, "The Performance of Minisupercomputers: Alliant FX/8, Convex C-1, and SCS-40," *Parallel Computing* **8**, 285-294 (1988).
48. H. J. Wasserman, "Los Alamos National Laboratory Computer Benchmarking 1988," *Los Alamos National Laboratory Report LA-11465-MS* (December 1988).
47. M. L. Simmons and H. J. Wasserman, "Los Alamos National Laboratory Computer Benchmarking 1986," *Los Alamos National Laboratory Report LA-10898-MS*, December, 1987.
46. H. J. Wasserman, A. J. Zozulin, D. C. Moody, R. R. Ryan, and K. V. Salazar, "Crystal and Molecular Structure of Triscyclopentadienyltetrahydrofuranuranium(III), ( $\eta^5\text{-C}_5\text{H}_5$ )<sub>3</sub>U $\cdot$ OC<sub>4</sub>H<sub>8</sub>," *J. Organomet. Chem.*, **254**, 305(1984).
45. H. J. Wasserman, G. J. Kubas, and R. R. Ryan, "Molecular Hydrogen Complexes of the Transition Metals. 3. Preparation, Structure, and Reactivity of W(CO)<sub>3</sub>(PCy<sub>3</sub>)<sub>2</sub> and W(CO)<sub>3</sub>(P-*i*Pr<sub>3</sub>)<sub>2</sub>, H<sub>2</sub> Complex Precursors Exhibiting M...H-C Interactions," *J. Am.Chem.Soc.*, **108**, 2294 (1986).

## RECENT PRESENTATIONS

"ASCI Performance Analysis Issues," JASONS Summer Study, San Diego, CA, June, 2003.

"Performance Analysis and Prediction for Large-Scale Scientific Applications," Tutorial at Cray User Group, Columbus, OH, May, 2003, with Darren Kerbyson.

"Some Performance Analysis Issues," ASCI PI Meeting, Coronado, CA, January 29, 2003

“Performance Modeling the Earth Simulator and ASCI Q\*,” Arctic Region Supercomputer Center, December, 2002.

“Some Performance Analysis Issues,” Burn Code Review, Los Alamos, July, 2002.

“Performance Analysis and Prediction for Large-Scale Scientific Applications,” Tutorial at International Conference on Supercomputing (half-day), New York, NY, June, 2002, with Adolfo Hoisie.

“Performance Analysis and Prediction for Large-Scale Scientific Applications,” Tutorial at VecPar’02 (full-day), Porto, Portugal June, 2002, with Adolfo Hoisie.

“Performance Analysis and Prediction for Large-Scale Scientific Applications,” Tutorial at ASCI PI Meeting, FL, January, 2002, with Adolfo Hoisie.

“Performance Analysis and Prediction for Large-Scale Scientific Applications,” Tutorial at SC1998 (half-day), SC1999 (full-day), and SC2000 (full-day) with Adolfo Hoisie.

“Performance Analysis and Prediction for Large-Scale Scientific Applications,” Tutorial at NPACI Summer Parallel Computing Institute, San Diego Supercomputer Center (half-day), Summer of 1998 and 1999.